

Mineral Industry Surveys

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CRUSHED STONE AND SAND AND GRAVEL IN THE FOURTH QUARTER OF 2002

An estimated 377 million metric tons of *crushed stone* were produced and shipped for consumption in the United States in the fourth quarter of 2002, a decrease of 7% compared with the same period of 2001. The estimated annual production of *crushed stone* shipped for consumption in 2002 was 1.57 billion metric tons, a 1.9% decrease compared with 2001. The estimated 2002 total annual production of crushed stone was the second highest production ever recorded in the U.S.

The estimated output of *construction sand and gravel* produced for consumption in the fourth quarter of 2002 was 263 million metric tons, a decrease of 3% compared with the same period of 2001. The estimated annual production of *construction sand and gravel* shipped for consumption in 2002 was 1.12 billion metric tons, a 0.9% decrease compared with 2001. The estimated 2002 total annual production of *construction sand and gravel* was the second highest production ever recorded in the U.S. The above estimates are based on information reported to the U.S. Geological Survey quarterly sample survey by *crushed stone* and *construction sand and gravel* producers.

The decrease in the production of *crushed stone* and *construction sand and gravel* during this quarter is due to unusually difficult weather conditions especially in the eastern

and southern parts of the United States, and a nationwide slow down in the construction activity.

In the fourth quarter of 2002, there was also a decrease of 8% in portland cement consumption compared with the same period of 2001.

The USGS quarterly survey is a sample survey that generates production for consumption estimates by quarters for each State, except Alaska and Hawaii, and each geographic division, based on information reported voluntarily by a limited number of producing companies. Occasionally, the number of companies reporting in an area varies from quarter to quarter, or previously reported data by some companies are revised. As a result of such changes in the size or the composition of the statistical sample, the estimated quantities for prior quarters are recalculated. The latest release of the quarterly Mineral Industry Surveys contains the most recent estimated totals and percentage changes and supersedes previously published similar information.

The production for consumption estimates for *crushed stone* and *construction sand and gravel* are generated independently for each State and geographic division, which are treated as separate statistical sample areas. Therefore, some differences may exist between the total for a division and the sum of State

Notice

The U.S. Geological Survey (USGS) will no longer print paper copies of the *Mineral Industry Surveys* for mailing list distribution after release of the Fourth Quarter 2002 report. The report will continue to be available on the USGS web site at URL <http://minerals.usgs.gov/minerals>.

If you would like to receive e-mail notification for future issues of the *Mineral Industry Surveys*, instructions are provided at <http://minerals.usgs.gov/minerals/pbus/listservices.html>.

totals that are part of the same geographic division.

The estimated U.S. *crushed stone* production for consumption in the fourth quarter of 2002 decreased in all geographic divisions with the exception of the Mountain (6.8%) and the Pacific (9%). The largest decreases were recorded in the Middle Atlantic (-12.3%), the West South Central (-10.8%), and the South Atlantic (-10.2%) divisions.

The leading geographic divisions for the total amount of *crushed stone* sold or used in the fourth quarter of 2002 were the South Atlantic with 84.4 million metric tons, or 22.4% of the U.S. total, followed by the East North Central with 75.3 million metric tons or 20%, and the West South Central division with 44 million metric tons or 11.7% of the total.

The estimated U.S. *construction sand and gravel* sold or used in the fourth quarter of 2002 decreased in all geographic divisions with the exception of the West North Central (2.3%), the Mountain (7.6%), and the Pacific (2.8%). The largest decreases in the estimated production of *construction sand and gravel* were recorded in the West South Central (-14.3%), the South Atlantic (-12.9%), and the East South Central (-10.4%) divisions.

The leading geographic divisions for the total amount of *construction sand and gravel* sold or used in the fourth quarter of 2002 were the Pacific with 53.5 million metric tons, or 20.3% of the U.S. total, followed by the East North Central with 52.6 million metric tons or 20%, and the Mountain division with 50.7 million metric tons or 19.3% of the total. The estimated totals by quarters for the geographic divisions do not include Alaska and Hawaii.

Production for consumption of *crushed stone* declined in the fourth quarter of 2002 in 28 of the 40 estimated States, compared with the same quarter of 2001. Significant decreases in production occurred in New Jersey (-54%), Idaho (-39.3%), and Wyoming (-19.6%). Significant increases in production of crushed stone in the fourth quarter of 2002 occurred in Utah (30.8%), Washington (22.7%), and Colorado and West Virginia (21.2%) each. The five leading States in the production for consumption of *crushed stone* in the fourth quarter of 2002 were Texas, Florida, Pennsylvania, Illinois, and Missouri. Their combined total production for consumption represented 30.8% of the U.S. total.

Production for consumption of *construction sand and gravel* declined in 30 of the 44 estimated States, with significant decreases recorded in West Virginia (-27.1%), Vermont (-23.7%), Wisconsin (-23.5%), Maryland (-22.7%), Mississippi (-20.4%), Oklahoma (-20.1%), and North Carolina (-20%). Significant increases in production of *construction sand and gravel* in the fourth quarter of 2002 occurred in Connecticut (25.7%), Tennessee (22.3%), and Washington (19.7%). The five leading States in the production for consumption of *construction sand and gravel* in the fourth quarter of 2002 were California, Michigan, Texas, Arizona, and Ohio. Their combined total production for consumption represented 36.5% of the U.S. total.

This survey also provides revised preliminary estimates by State for 2002. The 10 leading States in the production of *crushed stone* for the entire year of 2002 were Texas, Florida, Pennsylvania, Missouri, Illinois, Ohio, Georgia, North Carolina, California, and Virginia. Their combined total production for consumption for the entire year represented 52.4% of the U.S. total. The 10 leading States in the production of *construction sand and gravel* for the entire year of 2002 were California, Texas, Michigan, Ohio, Arizona, Minnesota, Colorado, Washington, Wisconsin, and Nevada. Their combined total production for consumption for the entire year represented 54.2% of the U.S. total.

A total of 319 companies representing *crushed stone* and *construction sand and gravel* producers reported production for consumption information to the fourth quarter sample survey. The large participation of the producing companies in this survey is reflected by the high percentage coverage obtained for most geographic divisions and States. The percentage coverage indicates how much of the total estimated production for consumption for a State or a geographic division was actually reported by companies participating in this survey and was used to generate the estimated totals for that particular area.

The percent changes between the estimated production for consumption for the current quarter and the same quarter of the prior year included in this report are important indicators of the production/consumption trends occurring in a particular area of the country.

TABLE 1
CRUSHED STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY DIVISION 1/

(Thousand metric tons and thousand dollars)

Region/Division	2001					2002		
						Value total 2/	Percent cover- age	Number of cos. 3/
	Quantity							
	1st qtr.	2nd qtr.	3rd qtr.	4th qtr.	Total 2/			
Northeast:								
New England	3,500	12,000	13,500	10,800	39,700	282,000	62	14
Middle Atlantic	22,700	53,700	57,800	46,900	181,000	1,100,000	64	30
Midwest:								
East North Central	37,300	82,300	95,000	80,100	295,000	1,390,000	67	39
West North Central	26,100	44,000	49,700	42,500	162,000	840,000	54	36
South:								
South Atlantic	76,900	103,000	102,000	94,000	376,000	2,280,000	83	49
East South Central	31,600	46,600	48,200	43,900	170,000	1,000,000	63	16
West South Central	42,300	57,300	56,400	49,300	205,000	972,000	74	26
West:								
Mountain	9,200	15,400	17,400	13,800	55,800	300,000	46	21
Pacific 4/	19,700	26,100	26,700	24,000	96,500	580,000	52	31
Total 2/	269,000	440,000	467,000	405,000	1,600,000 5/	8,920,000 5/	XX	XX

XX Not applicable.

1/ Quarterly totals shown are estimates based on a sample survey. Estimated quantities for prior quarters have been recalculated.

2/ Data may not add to totals shown because of independent rounding and differences between projected totals by States and by divisions.

3/ Number of companies reporting for the quarterly survey.

4/ Does not include Alaska and Hawaii.

5/ Includes Alaska, Hawaii, and "Other" totals; see table 5, footnote 5.

TABLE 2
SAND AND GRAVEL SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY DIVISION 1/

(Thousand metric tons and thousand dollars)

Region/Division	2001						2002	
	Quantity					Value total 2/	Percent cover- age	Number of cos. 3/
	1st qtr.	2nd qtr.	3rd qtr.	4th qtr.	Total 2/			
Northeast:								
New England	5,900	12,700	16,000	12,600	47,300	251,000	23	22
Middle Atlantic	9,000	20,100	23,600	15,200	67,900	386,000	30	23
Midwest:								
East North Central	28,200	67,400	80,100	56,600	232,000	961,000	42	43
West North Central	9,200	31,400	42,200	26,800	110,000	405,000	32	33
South:								
South Atlantic	18,200	23,200	22,200	20,700	84,300	414,000	51	35
East South Central	8,000	13,100	12,800	11,900	45,800	217,000	35	16
West South Central	25,800	35,800	33,500	28,500	124,000	591,000	43	14
West:								
Mountain	42,400	54,000	56,500	47,100	200,000	973,000	41	27
Pacific 4/	39,800	54,900	61,000	52,000	208,000	1,400,000	56	29
Total 2/	186,000	313,000	348,000	271,000	1,130,000 5/	5,670,000 5/	XX	XX

XX Not applicable.

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3/ Number of companies reporting for the quarterly survey.

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5/ Includes Alaska and Hawaii.

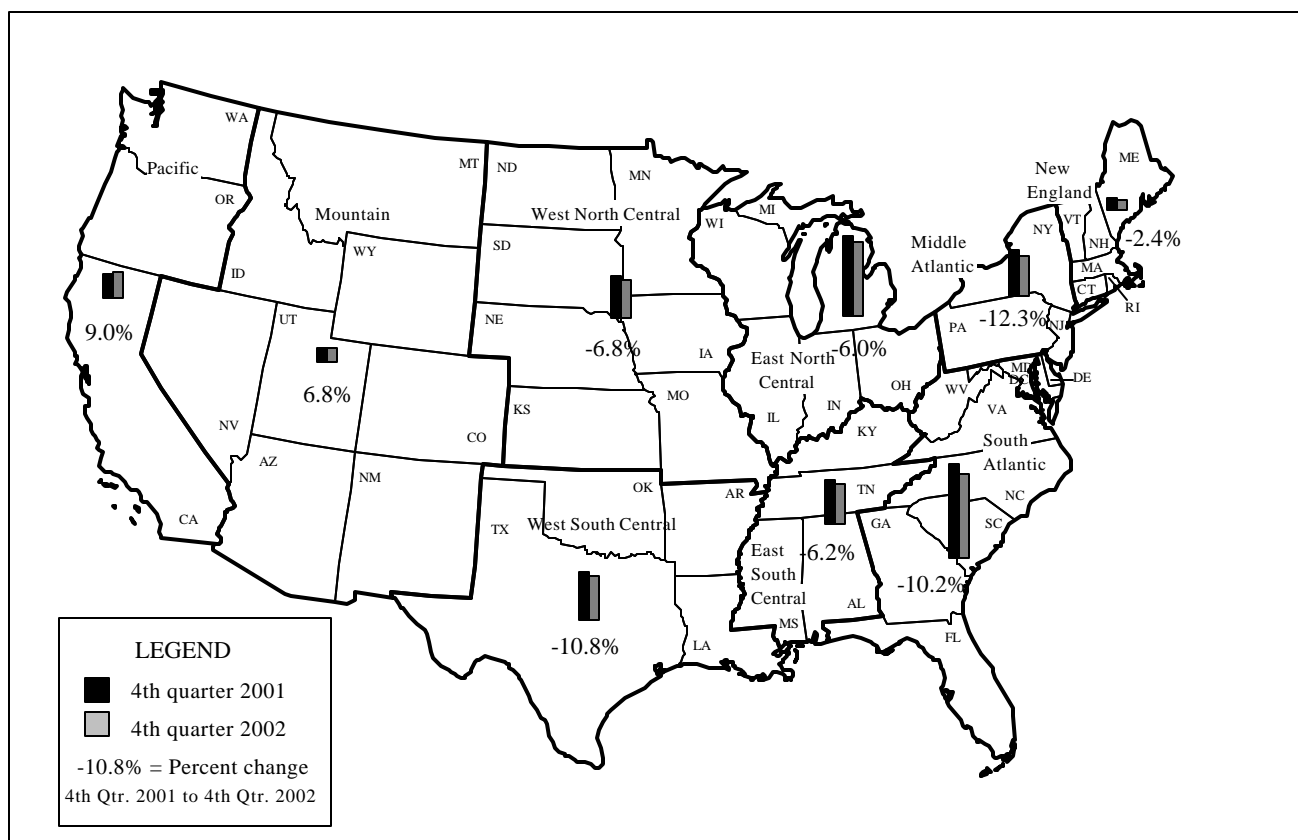


Figure 1 - Fourth quarter crushed stone production by geographic division

TABLE 3
CRUSHED STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY DIVISION 1/

(Thousand metric tons and thousand dollars)

Region/Division	2002								Total 3/	Value total 3/
	Quantity	Per-	Quantity	Per-	Quantity	Per-	Quantity	Per-		
	1st qtr.	cent change 2/	2nd qtr.	cent change 2/	3rd qtr.	cent change 2/	4th qtr.	cent change 2/		
Northeast:										
New England	3,500	1.7	12,100	1.6	14,500	7.2	10,500	(2.4)	40,700	290,000
Middle Atlantic	23,100	1.4	52,100	(3.0)	58,900	1.9	41,100	(12.3)	175,000	1,100,000
Midwest:										
East North Central	35,600	(4.3)	81,900	(0.5)	94,700	(0.3)	75,300	(6.0)	287,000	1,370,000
West North Central	26,500	1.5	44,400	0.8	49,400	(0.6)	39,700	(6.8)	160,000	845,000
South:										
South Atlantic	78,100	1.5	102,000	(0.3)	97,500	(4.5)	84,400	(10.2)	362,000	2,260,000
East South Central	32,200	1.7	46,200	(0.9)	48,900	1.5	41,200	(6.2)	168,000	1,050,000
West South Central	47,300	11.8	53,100	(7.4)	52,600	(6.7)	44,000	(10.8)	197,000	976,000
West:										
Mountain	11,100	19.9	18,600	21.2	18,700	7.5	14,800	6.8	63,100	345,000
Pacific 4/	20,500	3.8	26,800	2.6	27,700	3.9	26,100	9.0	101,000	623,000
Total 3/	278,000	3.2	437,000	(0.6)	463,000	(0.8)	377,000	(7.0)	1,570,000 5/	8,990,000 5/

1/ Quarterly totals shown are estimates based on a sample survey. Estimated quantities for prior quarters have been recalculated.

2/ All percent changes are calculated using unrounded totals.

3/ Data may not add to totals shown because of independent rounding and differences between projected totals by States and by divisions.

4/ Does not include Alaska and Hawaii.

5/ Includes Alaska, Hawaii, and "Other" totals; see table 5, footnote 5.

TABLE 4
SAND AND GRAVEL SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY DIVISION 1/

(Thousand metric tons and thousand dollars)

Region/Division	2002								Total 3/	Value total 3/
	Quantity	Per-	Quantity	Per-	Quantity	Per-	Quantity	Per-		
	1st qtr.	cent change 2/	2nd qtr.	cent change 2/	3rd qtr.	cent change 2/	4th qtr.	cent change 2/		
Northeast:										
New England	5,700	(2.8)	15,400	21.2	18,600	15.9	12,200	(3.4)	51,900	278,000
Middle Atlantic	8,900	(1.6)	19,700	(1.9)	20,500	(13.1)	13,800	(9.3)	62,900	365,000
Midwest:										
East North Central	25,700	(8.6)	66,500	(1.2)	72,000	(10.2)	52,600	(7.1)	217,000	907,000
West North Central	8,400	(8.8)	33,900	7.8	42,600	1.0	27,400	2.3	112,000	420,000
South:										
South Atlantic	18,400	1.5	22,100	(4.6)	20,900	(5.6)	18,000	(12.9)	79,500	386,000
East South Central	9,800	23.0	14,200	8.9	13,700	6.9	10,700	(10.4)	48,400	235,000
West South Central	28,300	9.7	32,100	(10.3)	28,500	(15.0)	24,400	(14.3)	113,000	555,000
West:										
Mountain	37,000	(12.8)	57,600	6.6	61,000	8.0	50,700	7.6	206,000	1,050,000
Pacific 4/	43,300	8.9	59,800	9.0	63,200	3.5	53,500	2.8	220,000	1,510,000
Total 3/	186,000	(0.4)	322,000	2.8	341,000	(2.0)	263,000	(3.0)	1,120,000 5/	5,710,000 5/

1/ Quarterly totals shown are estimates based on a sample survey. Estimated quantities for prior quarters have been recalculated.

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3/ Data may not add to totals shown because of independent rounding and differences between projected totals by States and by divisions.

4/ Does not include Alaska and Hawaii.

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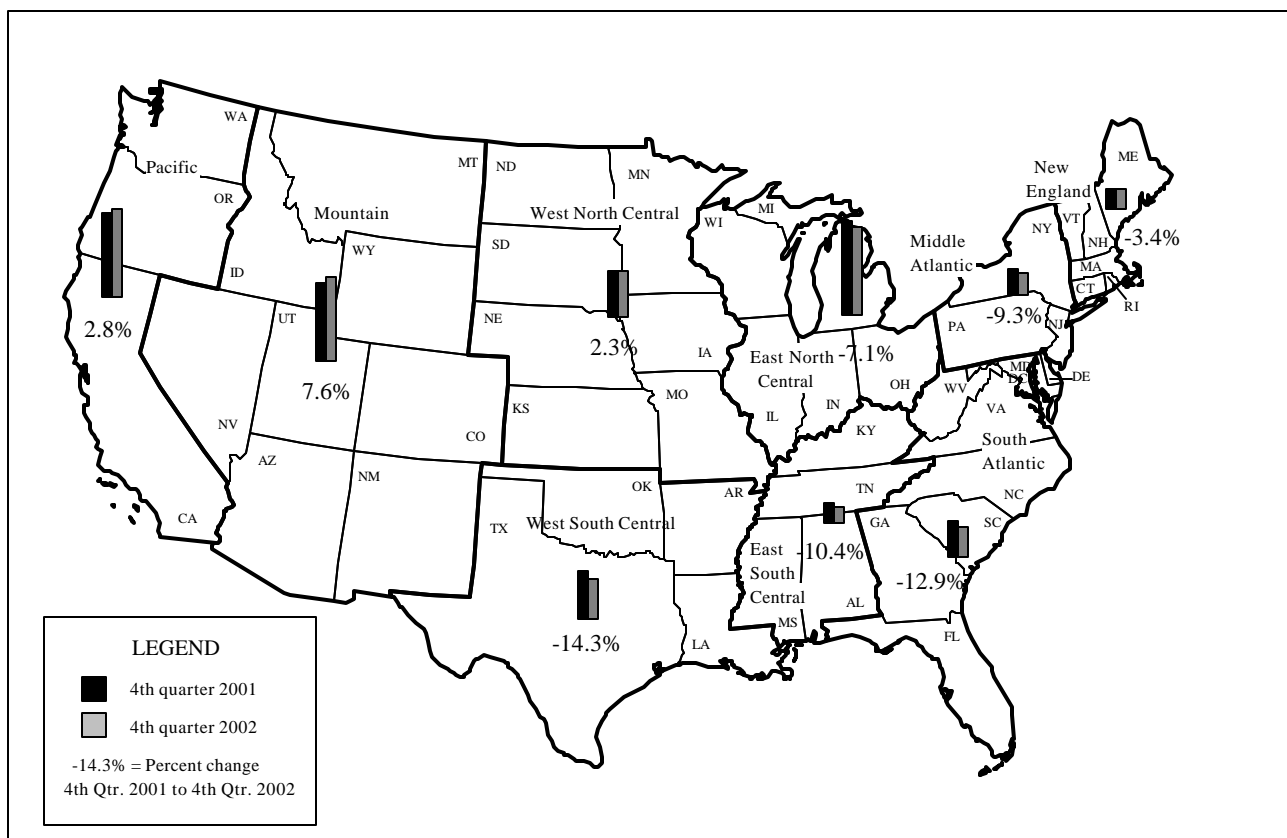


Figure 2 - Fourth quarter sand and gravel production by geographic division

TABLE 5
CRUSHED STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY STATE 1/

(Thousand metric tons and thousand dollars)

State	2001						2002	
	Quantity					Value	Percent	Number
	1st qtr.	2nd qtr.	3rd qtr.	4th qtr.	Total 2/	total 2/	cover- age	of cos. 3/
Alabama	10,000	13,000	14,100	12,300	49,400	308,000	57	11
Alaska	(4/,5/)	(4/,5/)	(4/,5/)	(4/,5/)	1,490	8,140	(4/,5/)	(4/,5/)
Arizona	(6/)	(6/)	(6/)	(6/)	8,320	49,600	(6/)	(6/)
Arkansas	6,000	9,200	9,900	8,700	33,700	169,000	65	9
California	12,900	16,500	16,900	15,300	61,600	396,000	58	15
Colorado	2,300	4,000	4,300	3,300	13,900	88,500	73	
Connecticut	700	3,000	3,300	2,900	9,870	83,200	78	4
Delaware	(4/)	(4/)	(4/)	(4/)	(4/)	(4/)	(4/)	(4/)
Florida	21,800	24,500	24,000	24,900	95,100	515,000	65	10
Georgia 5/	17,200	20,700	20,700	18,800	77,300	467,000	99	7
Hawaii	(4/)	(4/)	(4/)	(4/)	6,610	64,000	(4/)	(4/)
Idaho	1,100	800	1,800	1,500	5,250	22,500	34	4
Illinois 5/	10,900	21,500	25,600	22,700	80,700	459,000	66	10
Indiana	8,800	15,800	18,800	14,700	58,200	278,000	80	13
Iowa	4,200	10,300	11,000	10,000	35,600	189,000	53	6
Kansas	4,400	5,800	6,400	6,200	22,800	110,000	62	9
Kentucky	11,000	16,900	16,900	15,400	60,200	331,000	58	8
Louisiana	(5/,6/)	(5/,6/)	(5/,6/)	(5/,6/)	(5/,6/)	(5/,6/)	(5/,6/)	(5/,6/)
Maine	500	1,300	1,400	1,000	4,210	24,200	54	4
Maryland 5/	3,600	6,200	6,800	6,200	22,800	136,000	115	9
Massachusetts	1,400	4,000	5,100	3,900	14,500	121,000	66	5
Michigan 5/	3,100	13,400	14,000	12,700	43,200	160,000	76	9
Minnesota	500	2,800	4,100	2,400	9,730	57,000	54	4
Mississippi	(5/,6/)	(5/,6/)	(5/,6/)	(5/,6/)	2,140	21,500	(5/,6/)	(5/,6/)
Missouri	15,100	21,200	24,400	21,300	82,000	411,000	43	13
Montana	(6/)	(6/)	(6/)	(6/)	3,070	12,400	(6/)	(6/)
Nebraska	1,100	2,000	1,700	1,500	6,360	45,800	129	6
Nevada	1,700	1,800	2,500	2,200	8,230	40,400	39	5
New Hampshire 5/	300	1,300	1,400	1,100	4,230	18,200	71	4
New Jersey	3,400	7,400	7,900	7,700	26,400	184,000	66	5
New Mexico	900	1,000	1,200	1,100	4,230	26,100	28	4
New York	4,500	16,800	18,600	13,800	53,700	353,000	68	9
North Carolina	13,600	19,700	18,900	17,100	69,300	485,000	95	11
North Dakota	(4/,5/)	(4/,5/)	(4/,5/)	(4/,5/)	(4/,5/)	(4/,5/)	(4/,5/)	(4/,5/)
Ohio	9,600	21,300	24,500	20,500	75,900	339,000	75	12
Oklahoma	6,800	11,800	12,400	10,600	41,600	179,000	76	11
Oregon	3,800	5,300	6,600	5,000	20,800	100,000	48	11
Pennsylvania	15,000	29,500	31,200	25,400	101,000	564,000	61	20
Rhode Island	(6/)	(6/)	(6/)	(6/)	1,930	11,100	(6/)	(6/)
South Carolina	5,800	7,100	7,100	6,600	26,700	161,000	81	5
South Dakota	900	1,500	2,100	1,400	5,850	27,200	92	6
Tennessee	10,500	16,200	16,600	15,300	58,600	344,000	76	8
Texas	29,400	36,500	34,100	30,100	130,000	624,000	73	12
Utah	1,300	2,500	2,900	1,700	8,430	40,500	53	4
Vermont	(6/)	(6/)	(6/)	(6/)	4,950	24,300	(6/)	(6/)
Virginia	13,000	20,000	19,100	16,900	69,100	446,000	75	11
Washington	3,000	4,500	2,900	3,700	14,100	84,300	34	4
West Virginia	2,200	4,100	5,400	3,700	15,300	65,700	55	7
Wisconsin	5,200	9,900	12,500	9,000	36,600	150,000	23	7
Wyoming	400	1,500	1,300	1,200	4,370	20,400	82	5
Other	XX	XX	XX	XX	12,800	99,200	XX	XX
Total	XX	XX	XX	XX	1,600,000	8,920,000	XX	XX

See footnotes at end of table.

TABLE 5--Continued.
CRUSHED STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY STATE 1/

(Thousand metric tons and thousand dollars)

State	2002								Total 2/	Value total 2/
	Quantity	Per-	Quantity	Per-	Quantity	Per-	Quantity	Per-		
	1st qtr.	cent change 7/	2nd qtr.	cent change 7/	3rd qtr.	cent change 7/	4th qtr.	cent change 7/		
Alabama	11,600	15.6	14,700	12.9	15,500	9.9	13,100	5.7	54,700	348,000
Alaska	(4/,5/)	(4/,5/)	(4/,5/)	(4/,5/)	(4/,5/)	(4/,5/)	(4/,5/)	(4/,5/)	1,500	8,400
Arizona	(6/)	(6/)	(6/)	(6/)	(6/)	(6/)	(6/)	(6/)	9,280	56,500
Arkansas	6,600	9.9	8,900	(2.4)	9,400	(5.6)	7,300	(15.3)	32,200	165,000
California	13,500	5.0	17,200	4.0	16,700	(1.3)	16,300	6.5	63,700	421,000
Colorado	2,800	21.7	5,200	30.3	5,100	19.6	4,100	21.2	17,200	111,000
Connecticut	700	(4.9)	3,000	(0.3)	3,900	19.1	3,000	3.9	10,600	90,900
Delaware	(4/)	(4/)	(4/)	(4/)	(4/)	(4/)	(4/)	(4/)	(4/)	(4/)
Florida	25,900	18.5	27,100	10.7	26,300	9.9	25,600	3.1	105,000	600,000
Georgia 5/	16,700	(2.6)	20,000	(3.4)	18,900	(8.5)	16,400	(12.3)	72,100	445,000
Hawaii	(4/)	(4/)	(4/)	(4/)	(4/)	(4/)	(4/)	(4/)	7,000	69,200
Idaho	900	(11.6)	1,900	130.1	800	(57.3)	900	(39.3)	4,600	20,100
Illinois 5/	9,700	(10.7)	22,100	2.4	25,100	(1.9)	20,700	(8.8)	77,600	450,000
Indiana	8,400	(5.3)	15,700	(0.7)	18,700	(0.7)	14,200	(3.3)	57,000	277,000
Iowa	4,700	11.5	11,200	7.9	11,100	0.8	9,900	(0.9)	36,900	200,000
Kansas	4,500	1.3	5,800	1.1	5,700	(10.1)	5,500	(12.0)	21,500	107,000
Kentucky	10,600	(3.8)	14,100	(16.4)	16,200	(3.9)	14,200	(8.3)	55,100	309,000
Louisiana	(5/,6/)	(5/,6/)	(5/,6/)	(5/,6/)	(5/,6/)	(5/,6/)	(5/,6/)	(5/,6/)	(5/,6/)	(5/,6/)
Maine	600	6.7	1,200	(4.6)	1,500	2.1	900	(2.4)	4,190	24,600
Maryland 5/	4,400	21.0	6,400	3.8	6,500	(4.4)	5,200	(16.7)	22,500	137,000
Massachusetts	1,500	7.3	4,500	12.4	5,000	(2.3)	3,700	(5.7)	14,800	125,000
Michigan 5/	3,100	0.9	11,800	(11.8)	13,900	(1.0)	12,300	(3.1)	41,100	155,000
Minnesota	300	(35.7)	3,000	6.8	4,000	(1.1)	2,400	1.1	9,730	58,100
Mississippi	(5/,6/)	(5/,6/)	(5/,6/)	(5/,6/)	(5/,6/)	(5/,6/)	(5/,6/)	(5/,6/)	5,530	58,100
Missouri	15,700	3.7	19,800	(6.6)	24,900	2.1	19,200	(9.7)	79,600	407,000
Montana	(6/)	(6/)	(6/)	(6/)	(6/)	(6/)	(6/)	(6/)	3,190	13,300
Nebraska	1,100	2.0	1,900	(5.5)	1,700	(2.7)	1,500	(3.5)	6,170	45,200
Nevada	2,100	21.0	2,500	40.7	2,500	0.3	2,100	(5.8)	9,190	46,100
New Hampshire 5/	300	(2.2)	1,600	21.3	1,700	17.3	1,200	0.7	4,760	20,900
New Jersey	2,500	(26.7)	4,300	(42.1)	7,000	(11.3)	3,500	(54.0)	17,300	123,000
New Mexico	1,200	31.0	1,600	50.5	1,600	33.9	1,000	(12.9)	5,300	33,300
New York	6,300	38.4	17,700	5.4	21,100	13.3	14,800	7.4	59,900	405,000
North Carolina	12,500	(8.3)	19,300	(1.9)	17,600	(6.8)	14,400	(15.8)	63,800	456,000
North Dakota	(4/,5/)	(4/,5/)	(4/,5/)	(4/,5/)	(4/,5/)	(4/,5/)	(4/,5/)	(4/,5/)	(4/,5/)	(4/,5/)
Ohio	10,000	3.8	22,600	6.1	25,300	3.3	19,100	(6.6)	77,000	350,000
Oklahoma	9,600	41.7	10,300	(13.2)	10,700	(13.8)	8,600	(18.6)	39,200	172,000
Oregon	3,800	(1.0)	6,000	14.0	7,400	12.4	5,600	11.0	22,900	112,000
Pennsylvania	14,400	(3.9)	30,200	2.3	30,600	(1.9)	22,700	(10.5)	97,800	567,000
Rhode Island	(6/)	(6/)	(6/)	(6/)	(6/)	(6/)	(6/)	(6/)	1,310	7,740
South Carolina	5,700	(2.2)	7,200	0.9	6,700	(6.6)	5,500	(16.6)	25,100	154,000
South Dakota	600	(31.8)	1,900	25.8	2,100	3.1	1,300	(7.7)	5,920	28,100
Tennessee	9,900	(5.3)	16,400	1.4	16,300	(1.7)	13,400	(12.6)	56,000	336,000
Texas	31,200	6.2	33,900	(7.1)	33,200	(2.7)	27,800	(7.6)	126,000	639,000
Utah	1,200	(8.1)	2,100	(16.5)	2,900	0.6	2,200	30.8	8,450	41,500
Vermont	(6/)	(6/)	(6/)	(6/)	(6/)	(6/)	(6/)	(6/)	4,150	20,800
Virginia	11,800	(9.7)	17,500	(12.5)	16,800	(12.4)	13,900	(17.9)	60,000	396,000
Washington	3,200	4.2	3,400	(25.1)	3,700	28.9	4,500	22.7	14,800	90,400
West Virginia	2,200	2.8	4,400	9.1	5,000	(7.4)	4,500	21.2	16,100	70,600
Wisconsin	4,200	(19.9)	8,600	(13.4)	11,400	(8.8)	8,100	(10.2)	32,200	135,000
Wyoming	800	116.0	1,500	3.6	1,600	18.0	900	(19.6)	4,880	23,300
Other	XX	XX	XX	XX	XX	XX	XX	XX	5,800	56,300
Total	XX	XX	XX	XX	XX	XX	XX	XX	1,570,000	8,990,000

XX Not applicable.

1/ Quarterly totals shown are estimates based on a sample survey. Estimated quantities for prior quarters have been recalculated.

2/ Data may not add to totals shown because of independent rounding, and differences between projected totals by States and by divisions.

3/ Number of companies reporting for the quarterly survey.

4/ State not included in quarterly survey.

5/ To avoid disclosing proprietary data, certain State totals do not include all kinds of stone produced within the State; the portion not shown has been included with "Other".

6/ Owing to a low number of reporting companies, no production estimates by quarters were generated.

7/ All percentage changes are calculated using unrounded totals.

TABLE 6
SAND AND GRAVEL SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY STATE 1/

(Thousand metric tons and thousand dollars)

State	2001						2002	
	Quantity					Value total 2/	Percent cover- age	Number of comp. 3/
	1st qtr.	2nd qtr.	3rd qtr.	4th qtr.	Total 2/			
Alabama	3,200	3,700	3,500	3,200	13,600	60,200	43	7
Alaska	(4/)	(4/)	(4/)	(4/)	11,300	65,600	(4/)	(4/)
Arizona	13,900	13,700	13,200	12,100	52,900	288,000	72	7
Arkansas	2000	3200	3700	2700	11,600	57,600	50	3
California	28,900	39,700	42,400	38,100	149,000	1,080,000	62	15
Colorado	6,300	9,900	12,100	9,100	37,300	194,000	43	8
Connecticut	1,200	2,300	2,200	1,900	7,670	44,700	29	6
Delaware	(5/)	(5/)	(5/)	(5/)	3,370	19,300	(5/)	(5/)
Florida	5,900	6,500	6,200	6,300	24,800	109,000	64	8
Georgia	1,600	1,900	1,800	1,700	7,060	28,800	42	6
Hawaii	(4/)	(4/)	(4/)	(4/)	534	6,270	(4/)	(4/)
Idaho	(5/)	(5/)	(5/)	(5/)	15,000	52,400	(5/)	(5/)
Illinois	3,900	8,300	14,500	8,200	35,000	156,000	45	8
Indiana	6,000	8,800	7,800	6,300	29,000	124,000	51	7
Iowa	1,100	4,100	5,100	3,800	14,200	63,800	51	6
Kansas	1,600	3,100	3,000	2,500	10,200	29,100	22	3
Kentucky	2,100	2,700	2,800	2,500	10,100	40,400	14	3
Louisiana	3,100	5,400	5,300	4,300	18,100	85,100	48	3
Maine	900	3,400	4,200	2,700	11,200	44,900	14	4
Maryland	2,300	3,600	3,300	3,300	12,500	84,800	45	4
Massachusetts	2,300	3,400	4,200	4,000	14,000	89,300	19	6
Michigan	6,600	24,400	26,500	18,800	76,300	266,000	39	10
Minnesota	1,400	10,700	17,800	9,900	39,800	155,000	39	10
Mississippi	1,700	3,900	4,000	4,000	13,700	70,100	45	5
Missouri	1,800	3,200	3,500	2,500	10,900	45,800	54	4
Montana	1000	3400	6200	3900	14,600	67,200	32	3
Nebraska	1,800	4,200	4,500	2,500	13,000	43,000	23	5
Nevada	8,100	10,100	6,900	8,900	34,000	173,000	18	4
New Hampshire	1,000	2,300	3,200	2,200	8,630	43,300	36	5
New Jersey	2,900	5,100	4,800	3,900	16,800	98,000	30	6
New Mexico	2,300	3,000	2,900	2,400	10,600	54,500	42	5
New York	3,500	8,900	12,500	6,000	30,900	160,000	26	10
North Carolina	3,000	3,400	3,300	2,700	12,400	61,500	28	4
North Dakota	(4/)	(4/)	(4/)	(4/)	10,300	26,300	(4/)	(4/)
Ohio	6,200	14,300	17,400	12,500	50,400	256,000	55	15
Oklahoma	2,300	3,100	3,000	2,600	11,000	43,700	47	6
Oregon	2,600	4,000	6,100	4,700	17,300	99,200	42	5
Pennsylvania	2,600	6,100	6,600	5,000	20,200	128,000	38	10
Rhode Island	(5/)	(5/)	(5/)	(5/)	1,200	9,220	(5/)	(5/)
South Carolina	2,500	2,800	2,900	2,300	10,500	36,900	44	4
South Dakota	1,300	3,500	4,000	2,400	11,200	41,500	16	6
Tennessee	1,200	2,700	2,400	2,000	8,350	46,400	34	5
Texas	18,600	24,200	21,200	18,800	82,900	405,000	40	10
Utah	4,900	7,700	8,700	7,200	28,400	109,000	28	3
Vermont	300	1,100	1,800	1,400	4,570	20,000	25	4
Virginia	2,400	3,500	3,000	2,900	11,800	64,400	56	9
Washington	8,100	11,100	13,300	8,800	41,400	220,000	40	7
West Virginia	200	600	600	500	1,820	9,260	94	5
Wisconsin	4,400	11,700	13,900	11,500	41,600	159,000	22	9
Wyoming	700	1,900	2,700	1,900	7,200	35,100	16	3
Total	XX	XX	XX	XX	1,130,000	5,670,000	XX	XX

See footnotes at end of table.

TABLE 6--Continued
SAND AND GRAVEL SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY STATE 1/

(Thousand metric tons and thousand dollars)

State	2002								Total 2/	Value total 2/
	Quantity	Per-	Quantity	Per-	Quantity	Per-	Quantity	Per-		
	1st qtr.	cent change 6/	2nd qtr.	cent change 6/	3rd qtr.	cent change 6/	4th qtr.	cent change 6/		
Alabama	3,000	(4.3)	4,200	14.6	3,500	(1.3)	2,700	(14.9)	13,500	60,700
Alaska	(4/)	(4/)	(4/)	(4/)	(4/)	(4/)	(4/)	(4/)	11,500	67,800
Arizona	12,000	(13.8)	12,400	(9.5)	11,300	(14.0)	12,000	(0.8)	47,700	265,000
Arkansas	2,300	13.5	2,800	(10.9)	2,800	(24.1)	2,500	(8.8)	10,400	52,500
California	31,600	9.3	41,900	5.6	45,100	6.5	38,200	0.4	157,000	1,160,000
Colorado	5,600	(10.2)	13,200	33.0	15,400	28.0	10,500	16.0	44,800	236,000
Connecticut	1,100	(14.1)	3,800	69.3	4,200	86.4	2,400	25.7	11,500	68,400
Delaware	(5/)	(5/)	(5/)	(5/)	(5/)	(5/)	(5/)	(5/)	2,320	13,500
Florida	6,300	7.5	6,900	7.0	6,700	8.0	6,400	1.7	26,300	117,000
Georgia	1,700	2.4	2,000	6.8	1,700	(9.5)	1,400	(17.2)	6,750	28,100
Hawaii	(4/)	(4/)	(4/)	(4/)	(4/)	(4/)	(4/)	(4/)	500	6,000
Idaho	(5/)	(5/)	(5/)	(5/)	(5/)	(5/)	(5/)	(5/)	16,900	60,200
Illinois	3,100	(20.7)	8,000	(3.5)	9,600	(34.2)	7,500	(9.0)	28,200	128,000
Indiana	5,700	(5.8)	8,400	(5.2)	7,600	(3.3)	6,500	2.7	28,100	122,000
Iowa	1,300	20.1	4,300	4.8	4,900	(5.2)	3,600	(5.1)	14,200	65,000
Kansas	1,800	8.3	2,600	(14.8)	2,800	(4.5)	2,200	(11.7)	9,450	27,400
Kentucky	1,300	(36.6)	2,600	(2.8)	3,700	35.6	2,400	(5.7)	10,100	41,000
Louisiana	3,700	19.0	4,600	(14.2)	3,900	(26.3)	3,700	(12.7)	16,000	76,800
Maine	700	(26.3)	2,500	(25.1)	5,100	23.4	2,500	(8.0)	10,900	44,600
Maryland	2,400	2.9	3,000	(15.9)	3,000	(9.0)	2,500	(22.7)	11,000	76,000
Massachusetts	2,300	(0.1)	3,600	6.4	4,400	5.4	3,600	(12.2)	13,900	90,600
Michigan	5,600	(14.5)	25,400	4.3	26,200	(1.0)	18,200	(3.6)	75,500	269,000
Minnesota	800	(40.0)	13,800	28.5	19,400	9.1	11,200	13.3	45,300	179,000
Mississippi	2,900	70.4	4,600	16.2	4,200	4.2	3,200	(20.4)	14,900	77,900
Missouri	1,300	(25.2)	2,600	(17.5)	3,100	(9.7)	2,400	(3.7)	9,480	40,700
Montana	1,700	69.9	6,400	85.9	7,600	21.8	4,500	14.3	20,200	94,300
Nebraska	2,300	29.6	4,100	(4.2)	3,800	(15.4)	2,100	(15.6)	12,300	41,500
Nevada	7,200	(11.4)	8,700	(13.7)	8,700	25.2	7,700	(12.5)	32,300	168,000
New Hampshire	1,000	5.8	2,600	13.0	3,100	(1.5)	2,100	(4.9)	8,830	45,200
New Jersey	2,600	(11.0)	4,600	(9.3)	4,300	(10.4)	3,800	(3.0)	15,400	91,700
New Mexico	2,300	(0.8)	3,000	(2.7)	3,200	12.5	2,700	10.4	11,100	58,500
New York	3,800	8.5	8,900	0.3	10,200	(18.3)	5,800	(3.3)	28,700	152,000
North Carolina	2,600	(13.0)	3,000	(11.2)	2,600	(22.7)	2,100	(20.0)	10,300	52,400
North Dakota	(4/)	(4/)	(4/)	(4/)	(4/)	(4/)	(4/)	(4/)	10,300	26,700
Ohio	6,200	(0.1)	13,700	(3.9)	16,700	(4.0)	11,500	(8.5)	48,100	249,000
Oklahoma	2,500	11.0	2,900	(6.1)	2,700	(10.2)	2,100	(20.1)	10,200	41,300
Oregon	3,300	29.8	4,900	23.6	6,500	7.0	4,700	1.2	19,500	114,000
Pennsylvania	2,500	(2.5)	6,100	0.7	6,100	(8.2)	4,100	(18.1)	18,700	121,000
Rhode Island	(5/)	(5/)	(5/)	(5/)	(5/)	(5/)	(5/)	(5/)	1,280	10,100
South Carolina	2,100	(17.3)	2,800	(0.8)	2,500	(13.5)	2,100	(6.3)	9,510	31,200
South Dakota	800	(39.1)	3,200	(9.5)	4,100	2.3	2,500	0.5	10,500	39,500
Tennessee	2,000	67.5	2,400	(10.6)	2,800	14.8	2,500	22.3	9,680	54,900
Texas	19,900	7.1	21,900	(9.8)	19,000	(10.4)	16,100	(14.8)	76,900	384,000
Utah	3,000	(38.9)	9,300	21.9	10,200	17.4	8,100	12.9	30,600	119,000
Vermont	400	35.1	1,600	44.4	1,300	(32.0)	1,000	(23.7)	4,240	18,900
Virginia	2,300	(5.8)	3,200	(10.0)	3,000	(0.4)	2,400	(16.7)	10,800	60,100
Washington	8,200	0.2	13,600	21.9	11,600	(12.8)	10,600	19.7	43,900	238,000
West Virginia	200	8.4	500	(23.9)	500	(1.9)	300	(27.1)	1,560	8,080
Wisconsin	4,000	(9.9)	11,300	(3.2)	11,300	(18.8)	8,800	(23.5)	35,500	139,000
Wyoming	600	(7.7)	2,700	45.4	4,100	53.4	2,100	6.5	9,570	47,600
Total	XX	XX	XX	XX	XX	XX	XX	XX	1,120,000	5,710,000

XX Not applicable.

1/ Quarterly totals shown are estimates based on a sample survey. Estimated quantities for prior quarters have been recalculated.

2/ Data may not add to totals shown because of independent rounding, and differences between projected totals by States and by divisions.

3/ Number of companies reporting for the quarterly survey.

4/ State not included in quarterly survey.

5/ Owing to a low number of reporting companies, no production estimates by quarters were generated.

6/ All percentage changes are calculated using unrounded totals.